**TRANS MARA EAST SUB-COUNTY JOINT EVALUATION EXAMS -2015**

**231/3**

**BIOLOGY**

**PAPER 3**

**PRACTICALS**

**CONFIDENTIAL INSTRUCTIONS TO SCHOOLS**

The information contained in this paper is to enable the head of school and teacher in charge of Biology to make adequate preparations for this year’s Biology mock practical examination. NO ONE ELSE should have access to this paper or acquire knowledge of its contents. Great care must be taken to ensure that the information herein does not reach the candidates either directly or indirectly.

The Biology teacher is NOT expected to perform the experiments

The apparatus required by each candidate for the Biology mock practical examination are set out on the next page. It is expected that the ordinary apparatus of a Biology laboratory will be available.

The Biology teacher should note that it is his/her responsibility to ensure that each apparatus acquired, for this examination agrees with specifications on the next page.

***Each candidate will require the following*:**

Obtain fresh duodenum with intestinal content and squeeze the contents into a beaker. Issue 2 mls of the content per candidate and label it D1

Dissect the duodenum to expose the inner surface then cut it into smaller pieces and label it D

* + Iodine solution
	+ Dilute sodium hydroxide
	+ 1% copper sulphate
	+ Benedict solution
	+ Source of heat
	+ Lemon fruit per candidate
	+ A bean stem with complete roots.
	+ A sharp knife